

M	L	K	F	K	Y	G	A	R	N	P	L	D	A	G	15						
AGAGCCGCCAGTGGGAG	ATG	TTG	AAG	TTC	AAA	TAT	GGA	GCG	CGG	AAT	CCT	TTG	GAT	GCT	GGT	45					
A	A	E	P	I	A	S	R	A	S	R	L	N	L	F	F	Q	G	K	P	35	
GCT	GCT	GAA	CCC	ATT	GCC	AGC	CGG	ATG	CGG	CTG	AAT	CTG	AAT	CTG	TTC	TTC	CAG	GGG	AAA	CCA	105
P	F	M	T	Q	Q	Q	M	S	P	L	S	R	E	G	I	L	D	A	L	L	55
CCC	TTT	ATG	ACT	CAA	CAG	CAG	ATG	TCT	CCT	CTT	TCC	CGA	GAA	GGG	ATA	TTA	GAT	GCC	CTC	165	
F	V	L	F	E	E	C	S	Q	P	A	L	M	K	I	K	H	V	S	N	75	
TTT	GTT	CTC	TTT	GAA	GAA	TGC	AGT	CAG	CCT	GCT	CTG	ATG	AAG	ATT	AAG	CAC	GTG	AGC	AAC	225	
F	V	R	K	Y	S	D	T	I	A	E	L	Q	E	L	Q	P	S	A	K	95	
TTT	GTC	CGG	AAG	TAT	TCC	GAC	ACC	ATA	GCT	GAG	TTA	CAG	GAG	CTC	CAG	CCT	TCG	GCA	AAG	285	
D	F	E	V	R	S	L	V	G	C	G	H	F	A	E	V	Q	V	V	R	115	
GAC	TTC	GAA	GTC	AGA	AGT	CTT	GTA	GGT	TGT	GGT	CAC	TTT	GCT	GAA	GTG	CAG	GTG	GTA	AGA	345	
E	K	A	T	G	D	I	Y	A	M	K	V	M	K	K	K	A	L	L	A	135	
GAG	AAA	GCA	ACC	GGG	GAC	ATC	TAT	GCT	ATG	AAA	GTG	ATG	AAG	AAG	AAG	GCT	TTA	TTG	GCC	405	
Q	E	Q	V	S	F	F	E	E	E	R	N	I	L	S	R	S	T	S	P	155	
CAG	GAG	CAG	GTT	TCA	TTT	TTT	GAG	GAA	GAG	CGG	AAC	ATA	TTA	TCT	CGA	AGC	ACA	AGC	CCG	465	

Fig. 1A

W	I	P	Q	L	Q	Y	A	F	Q	D	K	N	H	L	Y	L	M	E	E	175
TGG	ATC	CCC	CAA	TTA	CAG	TAT	GCC	TTT	CAG	GAC	AAA	AAT	CAC	CTT	TAT	CTG	ATG	GAG	GAA	525
Y	Q	P	G	G	D	L	L	S	L	L	N	R	Y	E	D	Q	L	D	E	195
TAT	CAG	CCT	GGA	GGG	GAC	TTG	CTG	TCA	CTT	TTG	AAT	AGA	TAT	GAG	GAC	CAG	TTA	GAT	GAA	585
N	L	I	Q	F	Y	L	A	E	L	I	L	A	V	H	S	V	H	L	M	215
AAC	CTG	ATA	CAG	TTT	TAC	CTA	GCT	GAG	CTG	ATT	TTG	GCT	GTT	CAC	AGC	GTT	CAT	CTG	ATG	645
G	Y	V	H	R	D	I	K	P	E	N	I	L	V	D	R	T	G	H	I	235
GGA	TAC	GTG	CAT	CGA	GAC	ATC	AAG	CCT	GAG	AAC	ATT	CTC	GTT	GAC	CGC	ACA	GGA	CAC	ATC	705
K	L	V	D	F	G	S	A	A	K	M	N	S	N	K	M	V	N	A	K	255
AAG	CTG	GTG	GAT	TTT	GGA	TCT	GCC	GCG	AAA	ATG	AAT	TCA	AAC	AAG	ATG	GTG	AAT	GCC	AAA	765
L	P	I	G	T	P	D	Y	M	A	P	E	V	L	T	V	M	N	G	D	275
CTC	CCG	ATT	GGG	ACC	CCA	GAT	TAC	ATG	GCT	CCT	GAA	GTG	CTG	ACT	GTG	ATG	AAC	GGG	GAT	825
G	K	G	T	Y	G	L	D	C	D	W	W	S	V	G	V	I	A	Y	E	295
GGA	AAA	GGC	ACC	TAC	GGC	CTG	GAC	TGT	GAC	TGG	TGG	TCA	GTG	GGC	GTG	ATT	GCC	TAT	GAG	885
M	I	Y	G	R	S	P	F	A	E	G	T	S	A	R	T	F	N	N	I	315
ATG	ATT	TAT	GGG	AGA	TCC	CCC	TTC	GCA	GAG	GGA	ACC	TCT	GCC	AGA	ACC	TTC	AAT	AAC	ATT	945

Fig. 1B

Foot" StartFoot

M	N	F	Q	R	F	L	K	F	P	D	D	P	K	V	S	S	D	F	L	335
ATG	AAT	TTC	CAG	CGG	TTT	TTG	AAA	TTT	CCA	GAT	GAC	CCC	AAA	GTG	AGC	AGT	GAC	TTT	CTT	1005
D	L	I	Q	S	L	L	C	G	Q	K	E	R	L	K	F	E	G	L	C	355
GAT	CTG	ATT	CAA	AGC	TTG	TTG	TGC	GGC	CAG	AAA	GAG	AGA	CTG	AAG	TTT	GAA	GGT	CTT	TGC	1065
C	H	P	F	F	S	K	I	D	W	N	N	I	R	N	S	P	P	P	F	375
TGC	CAT	CCT	TTC	TTC	TCT	AAA	ATT	GAC	TGG	AAC	AAC	ATT	CGT	AAC	TCT	CCT	CCC	CCC	TTC	1125
V	P	T	L	K	S	D	D	D	T	S	N	F	D	E	P	E	K	N	S	395
GTT	CCC	ACC	CTC	AAG	TCT	GAC	GAT	GAC	ACC	TCC	AAT	TTT	GAT	GAA	CCA	GAG	AAG	AAT	TCG	1185
W	V	S	S	S	P	C	Q	L	S	P	S	G	F	S	G	E	E	L	P	415
TGG	GTT	TCA	TCC	TCT	CCG	TGC	CAG	CTG	AGC	CCC	TCA	GGC	TTC	TCG	GGT	GAA	GAA	CTG	CCG	1245
F	V	G	F	S	Y	S	K	A	L	G	I	L	G	R	S	E	S	V	V	435
TTT	GTG	GGG	TTT	TCG	TAC	AGC	AAG	GCA	CTG	GGG	ATT	CTT	GGT	AGA	TCT	GAG	TCT	GTT	GTG	1305
S	G	L	D	S	P	A	K	T	S	S	M	E	K	K	L	L	I	K	S	455
TCG	GGT	CTG	GAC	TCC	CCT	GCC	AAG	ACT	AGC	TCC	ATG	GAA	AAG	AAA	CTT	CTC	ATC	AAA	AGC	1365
K	E	L	Q	D	S	Q	D	K	C	H	K	M	E	Q	E	M	T	R	L	475
AAA	GAG	CTA	CAA	GAC	TCT	CAG	GAC	AAG	TGT	CAC	AAG	ATG	GAG	CAG	GAA	ATG	ACC	CGG	TTA	1425

Fig. 1C

H	R	R	V	S	E	V	E	A	V	L	S	Q	K	E	V	E	L	K	A	495
CAT	CGG	AGA	GTG	TCA	GAG	GTG	GAG	GCT	GTG	CTT	AGT	CAG	AAG	GAG	GTG	GAG	CTG	AAG	GCC	1485
S	E	T	Q	R	S	L	L	E	Q	D	L	A	T	Y	I	T	E	C	S	515
TCT	GAG	ACT	CAG	AGA	TCC	CTC	CTG	GAG	CAG	GAC	CTT	GCT	ACC	TAC	ATC	ACA	GAA	TGC	AGT	1545
S	L	K	R	S	L	E	Q	A	R	M	E	V	S	Q	E	D	D	K	A	535
AGC	TTA	AAG	CGA	AGT	TTG	GAG	CAA	GCA	CGG	ATG	GAG	GTG	TCC	CAG	GAG	GAT	GAC	AAA	GCA	1605
L	Q	L	L	H	D	I	R	E	Q	S	R	K	L	Q	E	I	K	E	Q	555
CTG	CAG	CTT	CTC	CAT	GAT	ATC	AGA	GAG	CAG	AGC	CGG	AAG	CTC	CAA	ATC	AAA	GAG	CAG		1665
E	Y	Q	A	Q	V	E	E	M	R	L	M	M	N	Q	L	E	E	D	L	4/25
GAG	TAC	CAG	GCT	CAA	GTG	GAA	GAA	ATG	AGG	TTG	ATG	ATG	AAT	CAG	TTG	GAA	GAG	GAT	CTT	575
V	S	A	R	R	R	S	D	L	Y	E	S	E	L	R	E	S	R	L	A	1725
GTC	TCA	GCA	AGA	AGA	CGG	AGT	GAT	CTC	TAC	GAA	TCT	GAG	CTG	AGA	GAG	TCT	CGG	CTT	GCT	595
A	E	E	F	K	R	K	A	T	E	C	Q	H	K	L	L	K	A	K	D	1785
GCT	GAA	GAA	TTC	AAG	CGG	AAA	GCG	ACA	GAA	TGT	CAG	CAT	AAA	CTG	TTG	AAG	GCT	AAG	GAT	615
Q	G	K	P	E	V	G	E	Y	A	K	L	E	K	I	N	A	E	Q	Q	1845
CAA	GGG	AAG	CCT	GAA	GTG	GGA	GAA	TAT	GCG	AAA	CTG	GAG	AAG	ATC	AAT	GCT	GAG	CAG	CAG	635
																				1905

Fig. 1D

L	K	I	Q	E	L	Q	E	K	L	E	K	A	A	K	E	R	A	E	R		655
CTC	AAA	ATT	CAG	GAG	CTC	CAA	GAG	AAA	CTG	GAG	AAG	GCT	GCA	AAG	GAG	CGA	GCC	GAG	AGG		1965
E	L	E	K	L	Q	N	R	E	D	S	S	E	G	I	R	K	K	L	V		675
GAG	CTG	GAG	AAG	CTG	CAG	AAC	CGA	GAG	GAT	TCT	TCT	GAA	GGC	ATC	AGA	AAG	AAG	CTG	GTG		2025
E	A	E	E	R	R	H	S	L	E	N	K	V	K	R	L	E	T	M	E		695
GAA	GCT	GAG	GAA	CGC	CGC	CAT	TCT	CTG	GAG	AAC	AAG	GTA	AAG	AGA	CTA	GAG	ACC	ATG	GAG		2085
R	R	E	N	R	L	K	D	D	I	Q	T	K	S	Q	Q	I	Q	Q	M		715
CGT	AGA	GAA	AAC	AGA	CTG	AAG	GAT	GAC	ATC	CAG	ACA	AAA	TCC	CAA	CAG	ATC	CAG	CAG	ATG		2145
A	D	K	I	L	E	L	E	E	K	H	R	E	A	Q	V	S	A	Q	H		735
GCT	GAT	AAA	ATT	CTG	GAG	CTC	GAA	GAG	AAA	CAT	CGG	GAG	GCC	CAA	GTC	TCA	GCC	CAG	CAC		2205
L	E	V	H	L	K	Q	K	E	Q	H	Y	E	E	K	I	K	V	L	D		755
CTA	GAA	GTG	CAC	CTG	AAA	CAG	AAA	GAG	CAG	CAC	TAT	GAG	GAA	AAG	ATT	AAA	GTG	TTG	GAC		2265
N	Q	I	K	K	D	L	A	D	K	E	T	L	E	N	M	M	Q	R	H		775
AAT	CAG	ATA	AAG	AAA	GAC	CTG	GCT	GAC	AAG	GAG	ACA	CTG	GAG	AAC	ATG	ATG	CAG	AGA	CAC		2325
E	E	E	A	H	E	K	G	K	I	L	S	E	E	Q	K	A	M	I	N		795
GAG	GAG	GAG	GCC	CAT	GAG	AAG	GGC	AAA	ATT	CTC	AGC	GAA	CAG	AAG	GCG	ATG	ATC	AAT	GCT		2385

Fig. 1E

M	D	S	K	I	R	S	L	E	Q	R	I	V	E	L	S	E	A	N	K	815
ATG	GAT	TCC	AAG	ATC	AGA	TCC	CTG	GAA	CAG	AGG	ATT	GTG	GAA	CTG	TCT	GAA	GCC	AAT	AAA	2445
L	A	A	N	S	S	L	F	T	Q	R	N	M	K	A	Q	E	E	M	I	835
CTT	GCA	GCA	AAT	AGC	AGT	CTT	TTT	ACC	CAA	AGG	AAC	ATG	AAG	GCC	CAA	GAA	GAG	ATG	ATT	2505
S	E	L	R	Q	Q	K	F	Y	L	E	T	Q	A	G	K	L	E	A	Q	855
TCT	GAA	CTC	AGG	CAA	CAG	AAA	TTT	TAC	CTG	GAG	ACA	CAG	GCT	GGG	AAG	TTG	GAG	GCC	CAG	2565
N	R	K	L	E	E	Q	L	E	K	I	S	H	Q	D	H	S	D	K	N	875
AAC	CGA	AAA	CTG	GAG	GAG	CAG	CTG	GAG	AAG	ATC	AGC	CAC	CAA	GAC	CAC	AGT	GAC	AAG	AAT	2625
R	L	L	E	L	E	T	R	L	R	E	V	S	L	E	H	E	E	Q	K	895
CGG	CTG	CTG	GAA	CTG	GAG	ACA	AGA	TTG	CGG	GAG	GTC	AGT	CTA	GAG	CAC	GAG	GAG	CAG	AAA	2685
L	E	L	K	R	Q	L	T	E	L	Q	L	S	L	Q	E	R	E	S	Q	915
CTG	GAG	CTC	AAG	CGC	CAG	CTC	ACA	GAG	CTA	CAG	CTC	TCC	CTG	CAG	GAG	CGC	GAG	TCA	CAG	2745
L	T	A	L	Q	A	A	R	A	A	L	E	S	Q	L	R	Q	A	K	T	935
TTG	ACA	GCC	CTG	CAG	GCT	GCA	CGG	GCG	GCC	CTG	GAG	AGC	CAG	CTT	CGC	CAG	GCG	AAG	ACA	2805
E	L	E	E	T	T	A	E	A	E	E	E	I	Q	A	L	T	A	H	R	955
GAG	CTG	GAA	GAG	ACC	ACA	GCA	GAA	GCT	GAA	GAG	GAG	ATC	CAG	GCA	CTC	ACG	GCA	CAT	AGA	2865

Fig. 1F

D	E	I	Q	R	K	F	D	A	L	R	N	S	C	T	V	I	T	D	L	975
GAT	GAA	ATC	CAG	CGC	AAA	TTT	GAT	GCT	CTT	CGT	AAC	AGC	TGT	ACT	GTA	ATC	ACA	GAC	CTG	2925
E	E	Q	L	N	Q	L	T	E	D	N	A	E	L	N	N	Q	N	F	Y	995
GAG	GAG	CAG	CTA	AAC	CAG	CTG	ACC	GAG	GAC	AAC	GCT	GAA	CTC	AAC	AAC	CAA	AAC	TTC	TAC	2985
L	S	K	Q	L	D	E	A	S	G	A	N	D	E	I	V	Q	L	R	S	1015
TTG	TCC	AAA	CAA	CTC	GAT	GAG	GCT	TCT	GGC	GCC	AAC	GAC	GAG	ATT	GTA	CAA	CTG	CGA	AGT	3045
E	V	D	H	L	R	R	E	I	T	E	R	E	M	Q	L	T	S	Q	K	1035
GAA	GTG	GAC	CAT	CTC	CGC	CGG	GAG	ATC	ACG	GAA	CGA	GAG	ATG	CAG	CTT	ACC	AGC	CAG	AAG	3105
Q	T	M	E	A	L	K	T	T	C	T	M	L	E	E	Q	V	M	D	L	1055
CAA	ACG	ATG	GAG	GCT	CTG	AAG	ACC	ACG	TGC	ACC	ATG	CTG	GAG	GAA	CAG	GTC	ATG	GAT	TTG	3165
E	A	L	N	D	E	L	L	E	K	E	R	Q	W	E	A	W	R	S	V	1075
GAG	GCC	CTA	AAC	GAT	GAG	CTG	CTA	GAA	AAA	GAG	CGG	CAG	TGG	GAG	GCC	TGG	AGG	AGC	GTC	3225
L	G	D	E	K	S	Q	F	E	C	R	V	R	E	L	Q	R	M	L	D	1095
CTG	GGT	GAT	GAG	AAA	TCC	CAG	TTT	GAG	TGT	CGG	GTT	CGA	GAG	CTG	CAG	AGA	ATG	CTG	GAC	3285
T	E	K	Q	S	R	A	R	A	D	Q	R	I	T	E	S	R	Q	V	V	1115
ACC	GAG	AAA	CAG	AGC	AGG	GCG	AGA	GCC	GAT	CAG	CGG	ATC	ACC	GAG	TCT	CGC	CAG	GTG	GTG	3345

Fig. 1G

E	L	A	V	K	E	H	K	A	E	I	L	A	L	Q	Q	A	L	K	E	1135
GAG	CTG	GCA	GTG	AAG	GAG	CAC	AAG	GCT	GAG	ATT	CTC	GCT	CTG	CAG	CAG	GCT	CTC	AAA	GAG	3405
Q	K	L	K	A	E	S	L	S	D	K	L	N	D	L	E	K	K	H	A	1155
CAG	AAG	CTG	AAG	GCC	GAG	AGC	CTC	TCT	GAC	AAG	CTC	AAT	GAC	CTG	GAG	AAG	AAG	CAT	GCT	3465
M	L	E	M	N	A	R	S	L	Q	Q	K	L	E	T	E	R	E	L	K	1175
ATG	CTT	GAA	ATG	AAT	GCC	CGA	AGC	TTA	CAG	CAG	AAG	CTG	GAG	ACT	GAA	CGA	GAG	CTC	AAA	3525
Q	R	L	L	E	E	Q	A	K	L	Q	Q	Q	M	D	L	Q	K	N	H	1195
CAG	AGG	CTT	CTG	GAA	GAG	CAA	GCC	AAA	TTA	CAG	CAG	CAG	ATG	GAC	CTG	CAG	AAA	AAT	CAC	3585
I	F	R	L	T	Q	G	L	Q	E	A	L	D	R	A	D	L	L	K	T	1215
ATT	TTC	CGT	CTG	ACT	CAA	GGA	CTG	CAA	GAA	GCT	CTA	GAT	CGG	GCT	GAT	CTA	CTG	AAG	ACA	3645
E	R	S	D	L	E	Y	Q	L	E	N	I	Q	V	L	Y	S	H	E	K	1235
GAA	AGA	AGT	GAC	TTG	GAG	TAT	CAG	CTG	GAA	AAC	ATT	CAG	GTT	CTC	TAT	TCT	CAT	GAA	AAG	3705
V	K	M	E	G	T	I	S	Q	Q	T	K	L	I	D	F	L	Q	A	K	1255
GTG	AAA	ATG	GAA	GGC	ACT	ATT	TCT	CAA	CAA	ACC	AAA	CTC	ATT	GAT	TTT	CTG	CAA	GCC	AAA	3765
M	D	Q	P	A	K	K	K	K	G	L	F	S	R	R	K	E	D	P	A	1275
ATG	GAC	CAA	CCT	GCT	AAA	AAG	AAA	AAG	GGT	TTA	TTT	AGT	CGA	CGG	AAA	GAG	GAC	CCT	GCT	3825

Fig. 1H



Footnote

L	P	T	Q	V	P	L	Q	Y	N	E	L	K	L	A	L	E	K	E	K		1295
TTA	CCC	ACA	CAG	GTT	CCT	CTG	CAG	TAC	AAT	GAG	CTG	AAG	CTG	GCC	CTG	GAG	AAG	GAG	AAA		3885
A	R	C	A	E	L	E	E	A	L	Q	K	T	R	I	E	L	R	S	A		1315
GCT	CGC	TGT	GCA	GAG	CTA	GAG	GAA	GCC	CTT	CAG	AAG	ACC	CGC	ATC	GAG	CTC	CGG	TCC	GCC		3945
R	E	E	A	A	H	R	K	A	T	D	H	P	H	P	S	T	P	A	T		1335
CGG	GAG	GAA	GCT	GCC	CAC	CGC	AAA	GCA	ACG	GAC	CAC	CCA	CAC	CCA	TCC	ACG	CCA	GCC	ACC		4005
A	R	Q	Q	I	A	M	S	A	I	V	R	S	P	E	H	Q	P	S	A		1355
GCG	AGG	CAG	CAG	ATC	GCC	ATG	TCC	GCC	ATC	GTG	CGG	TCC	CCA	GAG	CAC	CAG	CCC	AGT	GCC		4065
M	S	L	L	A	P	P	S	S	R	R	K	E	S	S	T	P	E	E	F		1375
ATG	AGC	CTG	CTG	GCC	CCG	CCA	TCC	AGC	CGC	AGA	AAG	GAG	TCT	TCA	ACT	CCA	GAG	GAA	TTT		4125
S	R	R	L	K	E	R	M	H	H	N	I	P	H	R	F	N	V	G	L		1395
AGT	CGG	CGT	CTT	AAG	GAA	CGC	ATG	CAC	CAC	AAT	ATT	CCT	CAC	CGA	TTC	AAC	GTA	GGA	CTG		4185
N	M	R	A	T	K	C	A	V	C	L	D	T	V	H	F	G	R	Q	A		1415
AAC	ATG	CGA	GCC	ACA	AAG	TGT	GCT	GTG	TGT	CTG	GAT	ACC	GTG	CAC	TTT	GGA	CGC	CAG	GCA		4245
S	K	C	L	E	C	Q	V	M	C	H	P	K	C	S	T	C	L	P	A		1435
TCC	AAA	TGT	CTC	GAA	TGT	CAG	GTG	ATG	TGT	CAC	CCC	AAG	TGC	TCC	ACG	TGC	TTG	CCA	GCC		4305

Fig. 11

T	C	G	L	P	A	E	Y	A	T	H	F	T	E	A	F	C	R	D	K	1455
ACC	TGC	GGC	TTG	CCT	GCT	GAA	TAT	GCC	ACA	CAC	TTC	ACC	GAG	GCC	TTC	TGC	CGT	GAC	AAA	4365
M	N	S	P	G	L	Q	T	K	E	P	S	S	S	L	H	L	E	G	W	1475
ATG	AAC	TCC	CCA	GGT	CTC	CAG	ACC	AAG	GAG	CCC	AGC	AGC	AGC	TTG	CAC	CTG	GAA	GGG	TGG	4425
M	K	V	P	R	N	N	K	R	G	Q	Q	G	W	D	R	K	Y	I	V	1495
ATG	AAG	GTG	CCC	AGG	AAT	AAC	AAA	CGA	GGA	CAG	CAA	GGC	TGG	GAC	AGG	AAG	TAC	ATT	GTC	4485
L	E	G	S	K	V	L	I	Y	D	N	E	A	R	E	A	G	Q	R	P	1515
CTG	GAG	GGA	TCA	AAA	GTC	CTC	ATT	TAT	GAC	AAT	GAA	GCC	AGA	GAA	GCT	GGA	CAG	AGG	CCG	4545
V	E	E	F	E	L	C	L	P	D	G	D	V	S	I	H	G	A	V	G	1535
GTG	GAA	GAA	TTT	GAG	CTG	TGC	CTT	CCC	GAC	GGG	GAT	GTA	TCT	ATT	CAT	GGT	GCC	GTT	GGT	4605
A	S	E	L	A	N	T	A	K	A	E	K	A	E	A	D	A	K	L	L	1555
GCT	TCC	GAA	CTC	GCA	AAT	ACA	GCC	AAA	GCA	GAA	AAA	GCA	GAA	GCT	GAT	GCT	AAA	CTG	CTT	4665
G	N	S	L	L	K	L	E	G	D	D	R	L	D	M	N	C	T	L	P	1575
GGA	AAC	TCC	CTG	CTG	AAA	CTG	GAA	GGT	GAT	GAC	CGT	CTA	GAC	ATG	AAC	TGC	ACG	CTG	CCC	4725
F	S	D	Q	V	V	L	V	G	T	E	E	G	L	Y	A	L	N	V	L	1595
TTC	AGT	GAC	CAG	GTG	GTG	TTG	GTG	GGC	ACC	GAG	GAA	GGG	CTC	TAC	GCC	CTG	AAT	GTC	TTG	4785

Fig. 1J

K	N	S	L	T	H	V	P	G	I	G	A	V	F	Q	I	Y	I	I	K	1615
AAA	AAC	TCC	CTA	ACC	CAT	GTC	CCA	GGA	ATT	GGA	GCA	GTC	TTC	CAA	ATT	TAT	ATT	ATC	AAG	4845
D	L	E	K	L	L	M	I	A	G	E	E	R	A	L	C	L	V	D	V	1635
GAC	CTG	GAG	AAG	CTA	CTC	ATG	ATA	GCA	GGA	GAA	GAG	CGG	GCA	CTG	TGT	CTT	GTG	GAC	GTG	4905
K	K	V	K	Q	S	L	A	Q	S	H	L	P	A	Q	P	D	I	S	P	1655
AAG	AAA	GTG	AAA	CAG	TCC	CTG	GCC	CAG	TCC	CAC	CTG	CCT	GCC	CAG	CCC	GAC	ATC	TCA	CCC	4965
N	I	F	E	A	V	K	G	C	H	L	F	G	A	G	K	I	E	N	G	1675
AAC	ATT	TTT	GAA	GCT	GTC	AAG	GGC	TGC	CAC	TTG	TTT	GGG	GCA	GGC	AAG	ATT	GAG	AAC	GGG	5025
L	C	I	C	A	A	M	P	S	K	V	V	I	L	R	Y	N	E	N	L	1695
CTC	TGC	ATC	TGT	GCA	GCC	ATG	CCC	AGC	AAA	GTC	GTC	ATT	CTC	CGC	TAC	AAC	GAA	AAC	CTC	5085
S	K	Y	C	I	R	K	E	I	E	T	S	E	P	C	S	C	I	H	F	1715
AGC	AAA	TAC	TGC	ATC	CGG	AAA	GAG	ATA	GAG	ACC	TCA	GAG	CCC	TGC	AGC	TGT	ATC	CAC	TTC	5145
T	N	Y	S	I	L	I	G	T	N	K	F	Y	E	I	D	M	K	Q	Y	1735
ACC	AAT	TAC	AGT	ATC	CTC	ATT	GGA	ACC	AAT	AAA	TTC	TAC	GAA	ATC	GAC	ATG	AAG	CAG	TAC	5205
T	L	E	E	F	L	D	K	N	D	H	S	L	A	P	A	V	F	A	A	1755
ACG	CTC	GAG	GAA	TTC	CTG	GAT	AAG	AAT	GAC	CAT	TCC	TTG	GCA	CCT	GCT	GTG	TTT	GCC	GCC	5265

Fig. 1K

S S N S F P V S I V Q V N S A G Q R E E 1775  
 TCT TCC AAC AGC TTC CCT GTC TCA ATC GTG CAG GTG AAC AGC AGC GCA GGG CAG CGA GAG GAG 5325  
  
 Y L L C F H E F G V F V D S Y G R R S R 1795  
 TAC TTG CTG TGT TTC CAC GAA TTT GGA GTG TTC GTG GAT TCT TAC GGA AGA CGT AGC CGC 5385  
  
 T D D L K W S R L P L A F A Y R E P Y L 1815  
 ACA GAC GAT CTC AAG TGG AGT CGC TTA CCT TTG GCC TTT GCC TAC AGA GAA CCC TAT CTG 5445  
  
 F V T H F N S L E V I E I Q A R S S A G 1835  
 TTT GTG ACC CAC TTC AAC TCA CTC GAA GTA ATT GAG ATC CAG GCA CGC TCC TCA GCA GGG 5505  
  
 T P A R A Y L D I P N P R Y L G P A I S 1855  
 ACC CCT GCC CGA GCG TAC CTG GAC ATC CCG AAC CCG CGC TAC CTG GGC CCT GCC ATT TCC 5565  
  
 S G A I Y L A S S Y Q D K L R V I C C K 1875  
 TCA GGA GCG ATT TAC TTG GCG TCC TCA TAC CAG GAT AAA TTA AGG GTC ATT TGC TGC AAG 5625  
  
 G N L V K E S G T E H H R G P S T S R S 1895  
 GGA AAC CTC GTG AAG GAG TCC GGC ACT GAA CAC CAC CGG GGC GGC TCC ACC TCC CGC AGC 5685  
  
 S P N K R G P P T Y N E H I T K R V A S 1915  
 AGC CCC AAC AAG CGA GGC CCA CCC ACG TAC AAC GAG CAC ATC ACC AAG CGC GTG GCC TCC 5745

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Fig. 1L

S	P	A	P	P	E	G	P	S	H	P	R	E	P	S	T	P	H	R	Y	1935
AGC	CCA	GCG	CCG	CCC	GAA	GGC	CCC	AGC	CAC	CCG	CGA	GAG	CCA	AGC	ACA	CCC	CAC	CGC	TAC	5805
R	E	G	R	T	E	L	R	R	D	K	S	P	G	R	P	L	E	R	E	1955
CGC	GAG	GGG	CGG	ACC	GAG	CTG	CGC	AGG	GAC	AAG	TCT	CCT	GGC	CGC	CCC	CTG	GAG	CGA	GAG	5865
K	S	P	G	R	M	L	S	T	R	R	E	R	S	P	G	R	L	F	E	1975
AAG	TCC	CCC	GGC	CGG	ATG	CTC	AGC	ACG	CGG	AGA	GAG	CGG	TCC	CCC	GGG	AGG	CTG	TTT	GAA	5925
D	S	S	R	G	R	L	P	A	G	A	V	R	T	P	L	S	Q	V	N	1995
GAC	AGC	AGC	AGG	GGC	CGG	CTG	CCT	GCG	GGA	GCC	GTG	AGG	ACC	CCG	CTG	TCC	CAG	GTG	AAC	5985
K	G	R	G	Q	S	A	S	Q	V	F	T	V	N	T	V	T	Y	Y	D	2015
AAG	GGA	AGA	GGG	CAG	AGT	GCC	TCT	CAA	GTT	TTC	ACG	GTT	AAC	ACT	GTC	ACC	TAT	TAT	GAC	6045
W	N	K	K	L	D	N	L	P	A	N	W	S	V	L	R	I	I	Q	L	2035
TGG	AAT	AAA	AAG	CTG	GAC	AAC	CTG	CCA	GCT	AAC	TGG	TCA	GTC	CTG	AGG	ATC	ATC	CAG	CTG	6105
N	G	E	I	R	Q	Q	V	E	K	S	V	L	R	T	D	Y	C	*		2053
AAT	GGA	GAA	ATC	CGG	CAG	CAG	GTT	GAA	AAG	TCT	GTT	CTG	AGA	ACA	GAT	TAT	TGC	TGA		6162
GCAGAGTT	CATGTGACTT	CTAGACGTG	GTGACTT	AAAAAATG	CCCTTAAGGCTG	CAGAGCCAC	CTCTGCTTACAA													
AAAGAGTACT	TAGTGCACATG	ACTGTAAGAAACA	ATTGTAAACCTC	ATCTAGAAATC	AGAAAGCTT	CTAATTTCTATA														
GAAATGACAC	CTCCCTGGAGCC	GAGACAACTCTGTT	GTTGATTTTGAAG	CACAGGCAAG	CAACACTGTATTAGTT															
CCATAGCCAG	GGCTCAACAGGG	ACAAGTGGCTGGCC	TTAAACACACAGATG	ACTGGAATGATGTG	GGCCTCAGTC															
CCTGTTCCCA	GAATTTTACTGGCA	AGGAGTTAGCATTT	TTGGCTTAAGAA	AAATCGAGAATG	TAGGTTTGA															

Fig. 1M

FOOT" ST22FOOT

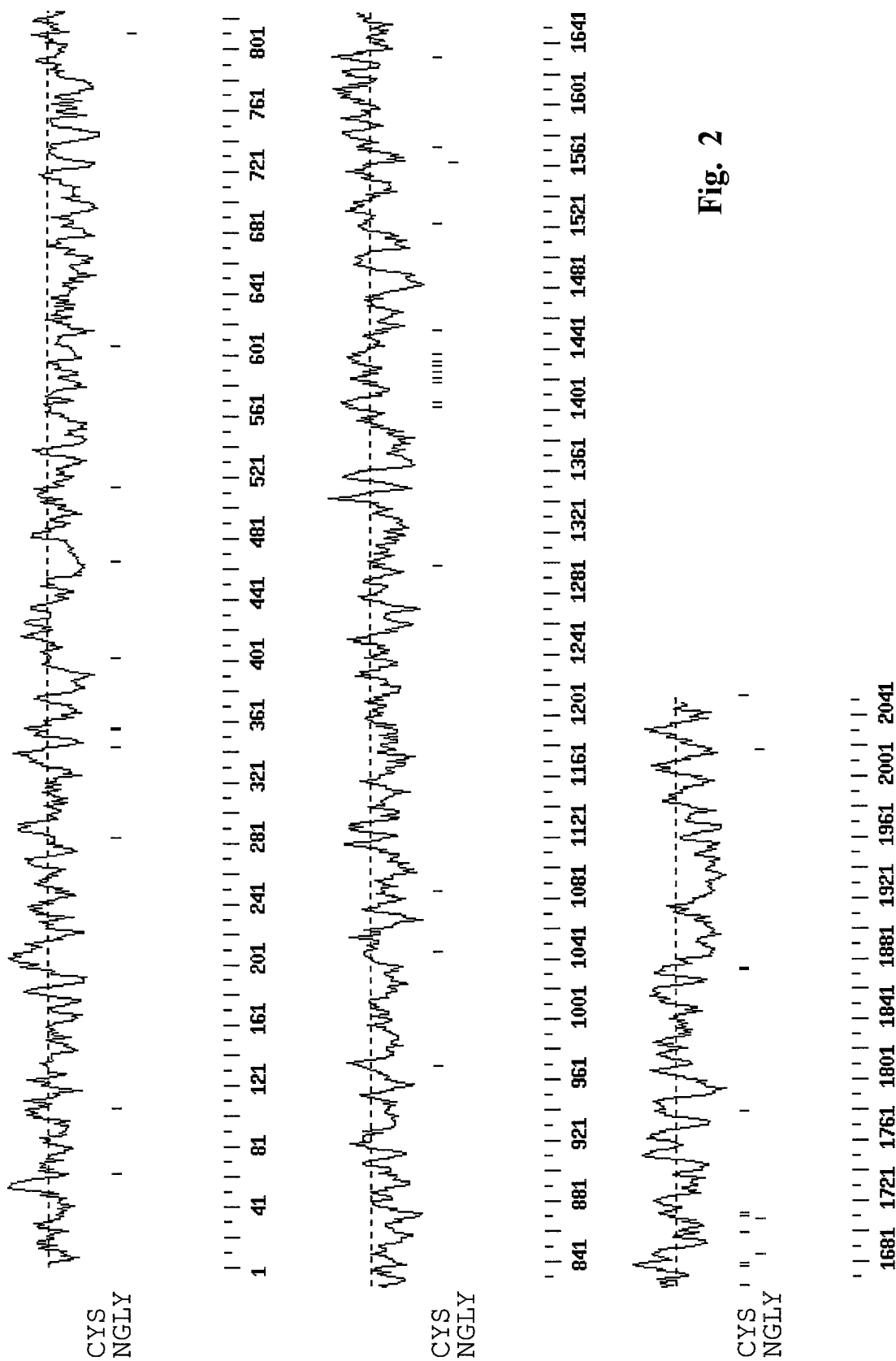


Fig. 2

Fig. 3A

1	13245	MLKFKYGARN	PLDAGAAEPI	ASRASRLNLF	FQKPPFMTQ	QQMSPLSREG	50
	AAC72823	MLKFKYGVNR	PPEASASEPI	ASRASRLNLF	FQKPPPLMTQ	QQMSALSREG	
	AAC27933	.....	.....	.....	.....	.....	
	P49025	.....	.....	.....	.....	.....	
	O14578	.....	.....	.....	.....	.....	
51	13245	ILDALFVLFE	ECSQPALMKI	KHVSNFVRKY	SDTIAELQEL	QPSAKDFEVR	100
	AAC72823	MLDALFALFE	ECSQPALMKM	KHVSSFVQKY	SDTIAELREL	QPSARDFEVR	
	AAC27933	.....	.....	.....	.....	.....	
	P49025	.....	.....	.....	.....	.....	
	O14578	.....	.....	.....	.....	.....	
101	13245	SLVGCGRHFAE	VQVREKATG	DIYAMKVMKK	KALLAQEQVS	FEEERNILS	150
	AAC72823	SLVGCGRHFAE	VQVREKATG	DVYAMKIMKK	KALLAQEQVS	FEEERNILS	
	AAC27933	.....	.....	.....	.....	.....	
	P49025	.....	.....	.....	.....	.....	
	O14578	.....	.....	.....	.....	.....	
151	13245	RSTSPWIPQL	QYAFQDKNHL	YLMEEYQPGG	DLLSLNRYE	DQDENLIQF	200
	AAC72823	RSTSPWIPQL	QYAFQDKNNL	YLVMEYQPGG	DFLSLNRYE	DQDESMIQF	
	AAC27933	.....	.....	.....	.....	.....	
	P49025	.....	.....	.....	.....	.....	
	O14578	.....	.....	.....	.....	.....	

Fig. 3B

201 250  
13245 YLAELILAVH SVHLMGYVHR DIKPENILVD RTGHIKLVDF GSAAKMNSNK  
AAC72823 YLAELILAVH SVHQMGYVHR DIKPENILID RTGEIKLVDF GSAAKMNSNK  
AAC27933 .....  
P49025 .....  
O14578 .....  
251 300  
13245 MVNAKLPIGT PDYMAPEVLT VMNGDGKGT Y GLDCDWWSVG VIAYEMIYGR  
AAC72823 .VDAKLPIGT PDYMAPEVLT VMNEDRRGT Y GLDCDWWSVG VVAYEMVYGR  
AAC27933 .....  
P49025 .....  
O14578 .....  
301 350  
13245 SPFAEGTSAR TFNNIMNFQR FLKFPDDPKV SSDFLDLIQS LLCGQKERLK  
AAC72823 TPFTEGTSAR TFNNIMNFQR FLKFPDDPKV SSELLDLLQS LLCVQKERLK  
AAC27933 .....  
P49025 .....  
O14578 .....  
351 400  
13245 FEGLCCHPFF SKIDWNNIRN SPPPFVPTLK SDDDTSNFDE PEKNSWVSSS  
AAC72823 FEGLCCHPFF ARTDWNIRN SPPPFVPTLK SDDDTSNFDE PEKNSWAFIL  
AAC27933 ..... PFVPTLK SDDDTSNFDE PEKNSWVSSS  
P49025 .....  
O14578 .....



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Fig. 3C

401  
13245 PCQLSPSGFS GEELPFVGF YSKALGILGR SESVVGGLDS PAKTSSMEKK 450  
AAC72823 CVPAPLAFS GEELPFVGF YSKALGILGR SESVVGGLDS PAKVSSMEKK  
AAC27933 VCQLSPSGFS GEELPFVGF YSKALGILGR SESVVGGLDS PAKVSSMEKK  
P49025 .....  
O14578 .....  
451  
13245 LLIKSKELQD SQDKCHKMEQ EMTRLHRRVS EVEAVLSQKE VELKASETQR 500  
AAC72823 LLIKSKELQD SQDKCHKMEQ EMTRLHRRVS EVEAVLSQKE VELKASETQR  
AAC27933 LLIKSKELQD SQDKCHKMEQ EMTRLHRRVS EVEAVLSQKE VELKASETQR  
P49025 .....M LLGEEAMMEQ EMTRLHRRVS EVEAVLSQKE VELKASETQR  
O14578 .....  
501  
13245 SLLEQDLATY ITECSSLKRS LEQARMEVSQ EDDKALQLLH DIREQSRKLQ 550  
AAC72823 SLLEQDLATY ITECSSLKRS LEQARMEVSQ EDDKALQLLH DIREQSRKLQ  
AAC27933 SLLEQDLATY ITECSSLKRS LEQARMEVSQ EDDKALQLLH DIREQSRKLQ  
P49025 SLLEQDLATY ITECSSLKRS LEQARMEVSQ EDDKALQLLH DIREQSRKLQ  
O14578 .....  
551  
13245 EIKEQEYQAA VEEMRLMMNQ LEEDLVSAARR RSDLYESEL RSLAAEEFFK 600  
AAC72823 EIKEQEYQAA VEEMRLMMNQ LEEDLVSAARR RSDLYESEL RSLAAEEFFK  
AAC27933 EIKEQEYQAA VEEMRLMMNQ LEEDLVSAARR RSDLYESEL RSLAAEEFFK  
P49025 EIKEQEYQAA VEEMRLMMNQ LEEDLVSAARR RSDLYESEL RSLAAEEFFK  
O14578 .....

Fig. 3D

FOEOT"STETOOT

13245	RKATECQHKL	LKAKDQGKPE	VGEYAKLEKI	NAEQQLKIQE	LQEKLEKA..	650
AAC72823	RKANECQHKL	MKAKDQGKPE	VGEYSKLEKI	NAEQQLKIQE	LQEKLEKAVK	
AAC27933	RKANECQHKL	MKAKDQGKPE	VGEYSKLEKI	NAEQQLKIQE	LQEKLEKAVK	
P49025	RKANECQHKL	MKAKDQGKPE	VGEYSKLEKI	NAEQQLKIQE	LQEKLEKAVK	
O14578	.....	.....	.....	.....	.....	
13245	.....	.....	AKERAE	RELEKLQNRE	DSSEGIRKKL	VEAEERRHSL
AAC72823	ASTEATELLQ	NIRQAKERAE	RELEKLHNRE	DSSEGIRKKL	VEAEERRHSL	
AAC27933	ASTEATELLQ	NIRQAKERAE	RELEKLHNRE	DSSEGIRKKL	VEAE.....	
P49025	ASTEATELLQ	NIRQAKERAE	RELEKLHNRE	DSSEGIRKKL	VEAEERRHSL	
O14578	.....	.....	.....	.....	.....	
13245	ENKVKRLETM	ERRENRLKDD	IQTKSQIQQ	MADKILELEE	KHREAQVSAQ	750
AAC72823	ENKVKRLETM	ERRENRLKDD	IQTKSEIQQ	MADKILELEE	KHREAQVSAQ	
AAC27933	.....	.....	.....	LEE	KHREAQVSAQ	
P49025	ENKVKRLETM	ERRENRLKDD	IQTKSEIQQ	MADKILELEE	KHREAQVSAQ	
O14578	.....	.....	.....	.....	.....	
13245	HLEVHLKQKE	QHYEEKIKVL	DNQIKKDLAD	KETLENMMQR	HEEEAHEKKGK	800
AAC72823	HLEVHLKQKE	QHYEEKIKVL	DNQIKKDLAD	KESLENMMQR	HEEEAHEKKGK	
AAC27933	HLEVHLKQKE	QHYEEKIKVL	DNQIKKDLAD	KESLENMMQR	HEEEAHEKKGK	
P49025	HLEVHLKQKE	QHYEEKIKVL	DNQIKKDLAD	KESLENMMQR	HEEEAHEKKGK	
O14578	.....	.....	VL	DNQIKKDLAD	HEEEAHEKKGK	

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Fig. 3E

13245	ILSEQKAMIN	AMDSKIRSLE	QRIVELSEAN	KLAANSSLFT	QRNMKAQEEM	850
AAC72823	ILSEQKAMIN	AMDSKIRSLE	QRIVELSEAN	KLAANSSLFT	QRNMKAQEEM	
AAC27933	ILSEQKAMIN	AMDSKIRSLE	QRIVELSEAN	KLAANSSLFT	QRNMKAQEEM	
P49025	ILSEQKAMIN	AMDSKIRSLE	QRIVELSEAN	KLAANSSLFT	QRNMKAQEEM	
O14578	ILSEQKAMIN	AMDSKIRSLE	QRIVELSEAN	KLAANSSLFT	QRNMKAQEEM	
801						
13245	ISELRQKKFY	LETQAGKLEA	QNRKLEEQLE	KISHQDHSDK	NRLLELETRL	900
AAC72823	ISELRQKKFY	LETQAGKLEA	QNRKLEEQLE	KISHQDHSDK	SRLLELETRL	
AAC27933	ISELRQKKFY	LETQAGKLEA	QNRKLEEQLE	KISHQDHSDK	SRLLELETRL	
P49025	ISELRQKKFY	LETQAGKLEA	QNRKLEEQLE	KISHQDHSDK	SRLLELETRL	
O14578	ISELRQKKFY	LETQAGKLEA	QNRKLEEQLE	KISHQDHSDK	NRLLELETRL	
851						
13245	REVSLHEHEEQ	KLELKRQLTE	LQLSLQERES	QLTALQAARA	ALESQLRQAK	950
AAC72823	REVSLHEHEEQ	KLELKRQLTE	LQLSLQERES	QLTALQAARA	ALESQLRQAK	
AAC27933	REVSLHEHEEQ	KLELKRQLTE	LQLSLQERES	QLTALQAARA	ALESQLRQAK	
P49025	REVSLHEHEEQ	KLELKRQLTE	LQLSLQERES	QLTALQAARA	ALESQLRQAK	
O14578	REVSLHEHEEQ	KLELKRQLTE	LQLSLQERES	QLTALQAARA	ALESQLRQAK	
901						
13245	TELEETTAAEA	EEEIQALTAH	RDEIQRKFDA	LRNSCTVITD	LEEQLNQLTE	1000
AAC72823	TELEETTAAEA	EEEIQALTAH	RDEIQRKFDA	LRNSCTVITD	LEEQLNQLTE	
AAC27933	TELEETTAAEA	EEEIQALTAH	RDEIQRKFDA	LRNSCTVITD	LEEQLNQLTE	
P49025	TELEETTAAEA	EEEIQALTAH	RDEIQRKFDA	LRNSCTVITD	LEEQLNQLTE	
O14578	TELEETTAAEA	EEEIQALTAH	RDEIQRKFDA	LRNSCTVITD	LEEQLNQLTE	
951						

Fig. 3F

1001	1050
13245 DNAELNNQNF	TEREMQLTSQ
AAC72823 DNAELNNQNF	TEREMQLTSQ
AAC27933 DNAELNNQNF	TEREMQLTSQ
P49025 DNAELNNQNF	TEREMQLTSQ
O14578 DNAELNNQNF	TEREMQLTSQ
1051	1100
13245 KQTMALKTT	VLGDEKSQFE
AAC72823 KQTMALKTT	VLGDEKSQFE
AAC27933 KQTMALKTT	VLGDEKSQFE
P49025 KQTMALKTT	VLGDEKSQFE
O14578 KQTMALKTT	VLGDEKSQFE
1101	1150
13245 CRVREIQRML	EILALQQALK
AAC72823 CRVREIQRML	EILALQQALK
AAC27933 CRVREIQRML	EILALQQALK
P49025 CRVREIQRML	EILALQQALK
O14578 CRVREIQRML	EILALQQALK
1151	1200
13245 EQKLKAESLS	KQRLLEEQAQ
AAC72823 EQKLKAESLS	KQRLLEEQAQ
AAC27933 EQKLKAESLS	KQRLLEEQAQ
P49025 EQKLKAESLS	KQRLLEEQAQ
O14578 EQKLKAESLS	KQRLLEEQAQ

Fig. 3G

TEEOT"STETOOT

1201	1250		
13245 LQQQMDLQKN	HIFRLTQGLQ EALDRADLLK	TERSDLEYQL	ENIQVLYSHE
AAC72823 LQQQMDLQKN	HIFRLTQGLQ EALDRADLLK	TERSDLEYQL	ENIQVLYSHE
AAC27933 LQQQMDLQKN	HIFRLTQGLQ EALDRADLLK	TERSDLEYQL	ENIQVLYSHE
P49025 LQQQMDLQKN	HIFRLTQGLQ EALDRADLLK	TERSDLEYQL	ENIQVLYSHE
O14578 LQQQMDLQKN	HIFRLTQGLQ EALDRADLLK	TERSDLEYQL	ENIQVLYSHE
1251	1300		
13245 KVKMEGTISQ	QTKLIDFLQA KMDQPAKKKK	GLFSRRKEDP	ALPTQVPLQY
AAC72823 KVKMEGTISQ	QTKLIDFLQA KMDQPAKKKK	.....	VPLQY
AAC27933 KVKMEGTISQ	QTKLIDFLQA KMDQPAKKKK	.....	VPLQY
P49025 KVKMEGTISQ	QTKLIDFLQA KMDQPAKKKK	.....	VPLQY
O14578 KVKMEGTISQ	QTKLIDFLQA KMDQPAKKKK	.....	VPLQY
1301	1350		
13245 NELKLALEKE	KARCAELEEA LQKTRIELRS	AREEAAHRKA	TDHHPHPSTPA
AAC72823 NELKLALEKE	KARCAELEEA LQKTRIELRS	AREEAAHRKA	TDHHPHPSTPA
AAC27933 NELKLALEKE	KARCAELEEA LQKTRIELRS	AREEAAHRKA	TDHHPHPSTPA
P49025 NELKLALEKE	KARCAELEEA LQKTRIELRS	AREEAAHRKA	TDHHPHPSTPA
O14578 NELKLALEKE	KARCAELEEA LQKTRIELRS	AREEAAHRKA	TDHHPHPSTPA
1351	1400		
13245 TARQQIAMSA	IVRSPEHQPS AMSLLAPPSS	RRKESSTPEE	FSRRLKERMH
AAC72823 TARQQIAMSA	IVRSPEHQPS AMSLLAPPSS	RRKESSTPEE	FSRRLKERMH
AAC27933 TARQQIAMSA	IVRSPEHQPS AMSLLAPPSS	RRKESSTPEE	FSRRLKERMH
P49025 TARQQIAMSA	IVRSPEHQPS AMSLLAPPSS	RRKESSTPEE	FSRRLKERMH
O14578 TARQQIAMSA	IVRSPEHQPS AMSLLAPPSS	RRKESSTPEE	FSRRLKERMH

Fig. 3H

1401  
13245 HNIPHRFNVG LNMRA TKCAV CLDTVHFGRQ ASKCLECQVM CHPKCSTCLP 1450  
AAC72823 HNIPHRFNVG LNMRA TKCAV CLDTVHFGRQ ASKCLECQVM CHPKCSTCLP  
AAC27933 HNIPHRFNVG LNMRA TKCAV CLDTVHFGRQ ASKCLECQVM CHPKCSTCLP  
P49025 HNIPHRFNVG LNMRA TKCAV CLDTVHFGRQ ASKCLECQVM CHPKCSTCLP  
O14578 HNIPHRFNVG LNMRA TKCAV CLDTVHFGRQ ASKCLECQVM CHPKCSTCLP  
  
1451  
13245 ATCGLPAEYA THFTEAFCD KMNSPGLQTK EPSSSLHLEG WMKVPRNNKR 1500  
AAC72823 ATCGLPAEYA THFTEAFCD KMNSPGLQSK EPGSSLHLEG WMKVPRNNKR  
AAC27933 ATCGLPAEYA THFTEAFCD KMNSPGLQSK EPGSSLHLEG WMKVPRNNKR  
P49025 ATCGLPAEYA THFTEAFCD KMNSPGLQSK EPGSSLHLEG WMKVPRNNKR  
O14578 ATCGLPAEYA THFTEAFCD KMNSPGLQTK EPSSSLHLEG WMKVPRNNKR  
  
1501  
13245 GQGWD RKYI VLEGSKVLIY DNEAREAGQR PV EEFELCLP DGDVSIHGAV 1550  
AAC72823 GQGWD RKYI VLEGSKVLIY DNEAREAGQR PV EEFELCLP DGDVSIHGAV  
AAC27933 GQGWD RKYI VLEGSKVLIY DNEAREAGQR PV EEFELCLP DGDVSIHGAV  
P49025 GQGWD RKYI VLEGSKVLIY DNEAREAGQR PV EEFELCLP DGDVSIHGAV  
O14578 GQGWD RKYI VLEGSKVLIY DNEAREAGQR PV EEFELCLP DGDVSIHGAV  
  
1551  
13245 GASELANTAK A..... 1600  
AAC72823 GASELANTAK ADVPYILKME SHPHTTCWPG RTLYLLAPSF PDKQRWVTAL  
AAC27933 GASELANTAK ADVPYILKME SHPHTTCWPG RTLYLLAPSF PDKQRWVTAL  
P49025 GASELANTAK ADVPYILKME SHPHTTCWPG RTLYLLAPSF PDKQRWVTAL  
O14578 GASELANTAK ADVPYILKME SHPHTTCWPG RTLYLLAPSF PDKQRWVTAL

Fig. 3I

13245	1601	1650
AAC72823	.....	PFSDQVVLVG
AAC27933	ESVVGGRVS	PFSDQVVLVG
P49025	ESVVGGRVS	PFSDQVVLVG
O14578	ESVVGGRVS	PFSDQVVLVG
13245	1651	1700
AAC72823	TEEGLYALNV	GEERALCLVD
AAC27933	TEEGLYALNV	GEERALCLVD
P49025	TEEGLYALNV	GEERALCLVD
O14578	TEEGLYALNV	GEERALCLVD
13245	1701	1750
AAC72823	VKKVKQSLAQ	GLCICAAMPS
AAC27933	VKKVKQSLAQ	SLCICAAMPS
P49025	VKKVKQSLAQ	SLCICAAMPS
O14578	VKKVKQSLAQ	SLCICAAMPS
13245	1751	1800
AAC72823	KVVILRYNEN	NKFYEIDMKQ
AAC27933	KVVILRYNDN	NKFYEIDMKQ
P49025	KVVILRYNDN	NKFYEIDMKQ
O14578	KVVILRYNEN	NKFYEIDMKQ

Fig. 3J

1801				1850			
13245	YTLDEFDKN	DHSLAPAVFA	ASSNSFPVSI	VQVNSAQRE	EYLLCFHEFG		
AAC72823	YTLDEFDKN	DHSLAPAVFA	SSNSFPVSI	VQANSAQRE	EYLLCFHEFG		
AAC27933	YTLDEFDKN	DHSLAPAVFA	SSNSFPVSI	VQANSAQRE	EYLLCFHEFG		
P49025	YTLDEFDKN	DHSLAPAVFA	SSNSFPVSI	VQANSAQRE	EYLLCFHEFG		
O14578	YTLDEFDKN	DHSLAPAVFA	ASSNSFPVSI	VQVNSAQRE	EYLLCFHEFG		
1851				1900			
13245	VFVDSYGRRS	RTDDLKWSRL	PLAFAYREPY	LFVTHFNSLE	VIEIQARSSA		
AAC72823	VFVDSYGRRS	RTDDLKWSRL	PLAFAYREPY	LFVTHFNSLE	VIEIQARSSL		
AAC27933	VFVDSYGRRS	RTDDLKWSRL	PLAFAYREPY	LFVTHFNSLE	VIEIQARSSL		
P49025	VFVDSYGRRS	RTDDLKWSRL	PLAFAYREPY	LFVTHFNSLE	VIEIQARSSL		
O14578	VFVDSYGRRS	RTDDLKWSRL	PLAFAYREPY	LFVTHFNSLE	VIEIQARSSA		
1901				1950			
13245	GTPARAYLDI	PNPRYLGPAI	SSGAIYLIASS	YQDKLRVICC	KGNLVKESGT		
AAC72823	GSPARAYLEI	PNPRYLGPAI	SSGAIYLIASS	YQDKLRVICC	KGNLVKESGT		
AAC27933	GSPARAYLEI	PNPRYLGPAI	SSGAIYLIASS	YQDKLRVICC	KGNLVKESGT		
P49025	GSPARAYLEI	PNPRYLGPAI	SSGAIYLIASS	YQDKLRVICC	KGNLVKESGT		
O14578	GTPARAYLDI	PNPRYLGPAI	SSGAIYLIASS	YQDKLRVICC	KGNLVKESGT		
1951				2000			
13245	EHHRGPTSR	SSPNKRGPPT	YNEHITKRVA	SSPAPPEGPS	HPREPSTPHR		
AAC72823	EQHRVPSTSR	SSPNKRGPPT	YNEHITKRVA	SSPAPPEGPS	HPREPSTPHR		
AAC27933	EQHRVPSTSR	SSPNKRGPPT	YNEHITKRVA	SSPAPPEGPS	HPREPSTPHR		
P49025	EQHRVPSTSR	SSPNKRGPPT	YNEHITKRVA	SSPAPPEGPS	HPREPSTPHR		
O14578	EHHRGPTSR	SSPNKRGPPT	YNEHITKRVA	SSPAPPEGPS	HPREPSTPHR		



Fig. 3K

13245 YR..EGRTEL RRDKSPGRPL EREKSPGRML STRRERSPGR LFEDSSRGRL 2050  
AAC72823 YRDREGRTEL RRDKSPGRPL EREKSPGRML STRRERSPGR LFEDSSRGRL  
AAC27933 YRDREGRTEL RRDKSPGRPL EREKSPGRML STRRERSPGR LFEDSSRGRL  
P49025 YRDREGRTEL RRDKSPGRPL EREKSPGRML STRRERSPGR LFEDSSRGRL  
O14578 YR..EGRTEL RRDKSPGRPL EREKSPGRML STRRERSPGR LFEDSSRGRL  
  
13245 PAGAVRTPLS QVNKGRGQSA SQVFTVNTVT YYDWNKKLDN LPANWSVLRI 2100  
AAC72823 PAGAVRTPLS QVNKVWDQSS V.....  
AAC27933 PAGAVRTPLS QVNKVWDQSS V.....  
P49025 PAGAVRTPLS QVNKVWDQSS V.....  
O14578 PAGAVRTPLS QVNKVWDQSS V.....  
  
13245 IQLNGEIRQQ VEKSVLRTDY C 2121  
AAC72823 .....  
AAC27933 .....  
P49025 .....  
O14578 .....